1

Yi 2
7397
F 7

On Sleep.

Au Lecteur

We have considered the Senses, and the mind in an active State. ~~To~~ ~~and Nature~~ ~~This proves us to~~ ~~treat of them~~ ~~before~~ ~~Let us next~~ ~~that we~~ Consider them in a passive State, that is a State of Sleep. —

Of Sleep

The impressions which induce sensation
and thought, whether pleasant, or pain-
-ful, by their action upon the System,
its excitement, & expend its
wear it down & in such a manner
excitability
as to render Sleep necessary to renew them.

Sleep affords the same repose to sensation
or to the nerves and brain, that
and thought, & rest does to motion,
or to the muscles.
It is as necessarily alternated with
waking, as light is with Darkness.

In Describing it I shall
I consider its proximate cause.
II I shall inquire into its remote causes.
III I shall take notice of the State of the System
and of several phænomena which occur
in Sleep, and

IV. I shall endeavour to explain the
cause of Dreams, and of several anoma-
=lous facts connected with them.

I The proximate cause of Sleep depends
upon a certain fixed or determined
grade of Dyspnoea in the brain. It has
been called by Dr Brown "the sleeping point."
It has likewise been called "a healthy
Apoplexy". It is induced by an accumu-
=lation of blood in the Venous sinuses,
and Spinal marrow. This has been
demonstrated by the dissections of persons
who have died in this Sleep, also by the
effect of pressing upon the brain Dimi-
=nished of the Cranium in the Parisian
beggar mentioned by Dr Bonhoure. A
gentle degree of pressure induced Sleep,

V of the proximate cause of sleep it will naturally occur to you that it is to all intents and purposes, a disease. Other proofs of its being so will be mentioned presently.

VI and according to the length of time in which they act upon the body.

but a greater degree of pressure induced
Apoplexy from both of which he
recovered by removing this hand from
his the brain. In that grade of depression
of the brain in which sleep takes place,
the nerves
it ceases to ~~conduct~~ become
the instruments ~~of~~ the brain of
sensation, and the brain of thought.
I shall this grade of depression, or the
sleeping point at 20° in the brain
and nerves, and wakefulness at 10°
above, or below it. From this history V
I] the remote causes of sleep which
come next under our consideration
act in a relative manner, according
as the brain is elevated above the sleeping,
or depressed below the sleeping
point. I shall divide these causes

V 2 such as act by expending
the excitability of the System, &
by that means reduce excitement.
and 3dly into such as act by gently
and gradually elevating the System
to the sleeping point. To the first
Class of Causes belong

Therefore into three Classes. 1 such as act by the Abstraction of Stimulus & thus ~~bop~~ reduce excitement.

~~Thirdly~~

1 The Abstraction of light, sound, and muscular motion.

2 Certain evacuations particularly bloodletting and purging.

3 Certain substances applied to the body, such as Oil, Eider down, and the like.

4 Cold. The death which is induced by Cold is always preceded by Sleep.

5 The gratifications of the Venereal appetite - hence the saying "Omne Animal post coitum tristat" it might have been added - inclines likewise to Sleep.

6 The cessation of pain - hence we

observe sleep generally follows participation.
y certain sedative passions. Grief, and
ven Despair under certain circumstan-
=ces often induce sleep. I have more than
once seen mothers sleep soundly ~~after~~ the
night after the death of a child, and
Ackerman the keeper of Newgate
prison in London has often remarked
that Criminals sleep profoundly the
night before their execution. Mr Custine
the son of General Custine informed
his wife in a letter written to her a
few hours before he suffered death by
the Guillotine, that he had slept nine
hours the preceding night. This ex-
=planation of one of the causes of

Sleep vindicates the disciples of our
Saviour from a Want of Sympathy
with him in his sufferings. They
slept during his agony in the garden
only from an excess of their sympathy
with him. Matth: 26. Verse 40.

The 2nd class of remote causes which in-
=duce sleep by expending the excitability
of the System are

1 Labor. This is the most universal
and natural cause of sleep. ~~It stops~~ when
gentle, it kindly reduces the System to
the sleeping point.

2 Certain stimulating Aliments &
Drinks, and certain narcotic substances,
~~to sleep~~ taken in such quantities as
gradually to expend the excitability &

7.

educe the excitement of the System

3 Certain Sounds, particularly the Noise of a City in persons who have not been accustomed to it.

4 Heat applied to the body. ~~It~~

~~produces~~

5 The long and painful exercise of the Understanding upon any one Subject. Generals often sleep soundly the night before a battle, from the excitement of this System being gradually reduced by the arrangements of the preceding day. —

The 3d Class of Causes which gradually elevate the System to the Sleeping point are

1 Gentle labor or exercise particularly

walking, riding in a Carriage, and rocking in a Cradle.

2 The moderate stimulus of Aliments and Drinks. Hence we observe many people who are in the habit of eating a small supper just before sleep, or restless nights, if they go to bed without taking a little food. Small doses of Opium & fermented liquors - also tea, and Coffee have the same soporific effects upon the System. Take notice here of the relative effects of tea. It both prevents, and induces sleep. When the System is nearly at the sleeping point, it elevates it above it, and thus prevents sleep, but when it is 8 or 10 degrees below it, which is the case

after great fatigue, it induces sleep by
elevating the system to the sleeping
point.

3 Certain Sounds. The inhabitants of
the neighbourhood of the falls of the Nile
are unable to sleep when they leave
home from the absence of the customary
stimulus of sound. I knew a Watchma-
-ker of this city who had been in the practice
of ~~having~~ carrying all the
~~with him to bed with him~~ watches
~~in his bedroom in order to~~ in his
Shops, and placing them upon a
table in his bed room every night
in order to prevent their being stolen.
When this watchmaker went abroad
he was unable to sleep until he pro-
-cured from the persons in the

families in which he visited, all their
watches and placed them in his room
when he went to bed. The falling of
rain upon the roof of a house, and
the "lenis susurrus" of the poet, or
the humming of the bee often induce
sleep in the same way.

A moderate warmth by raising the
excitement of the system to the sleeping
point, brings on sleep, - hence the good
effects, in some cases, of the pediluvium.

5 Certain acts or exercises of the mind which
exert a stimulus exactly proportioned
to the degree of reduction of the system
below the sleeping point, - those are think-
-ing upon some one uninteresting
subject, or counting an 100 backwards.

6 Even the stimulus of light in this
state of the system often induces sleep.
— This I have often observed in sick
people who are unable to sleep during
the Darkness of the night, but who
drop asleep as soon as you do the light of
the morning breaks in upon them.
I have once substituted the light
of a Candle to that of the Sun in a
patient who was unable to
sleep, with the happiest effect. I was
encouraged to recommend this remedy
by hearing of a lady in this city
who cannot sleep without a lighted
Candle in her room and who wakes
suddenly
if her candle
burns out during the night. —

V 2dly. It is necessary for the remote cause to wear away the excitability of the System, and thereby to impose upon it a disposition to sensation, thought or motion.

3dly The operation of all the remote causes of Sleep which have been mentioned is much aided by a recumbent posture of the body. It favours the accumulation of the blood in the venous sinuses and spinal marrow upon which d said the proximate cause of Sleep depended. —

It is necessary for the production of Sleep that the excitability of the Nerves, Muscles and blood vessels its remote causes should wear away

be equal to the same points in equal proportions, unless this be the case Sleep cannot take place

In order that all the three classes of
stimuli should induce sleep it is necessary
1st they should act upon the ~~nerves~~ brain, the
nerves, ~~and~~ the muscles & the blood expels
in an agreable manner. Thus if ~~nerv~~
the excitement of the brain & nerves
~~excitability~~ were at 20°: and mus-
=cular and arterial ~~excitability~~ excitement above or below 20°:
perfect or healthy
sleep could not take place, until a
perfect harmony was established between
these great and extensive Surfaces of
impression. They are brought to par
by medicines and exercises in some cases
which act alike upon them all; but
equality of ~~excitability~~ excitement is sometimes induced
by certain medicines or exercises which
act exclusively upon a part of them.

Thus Asafetida will induce sleep better
than Opium when the brain and nerves are
below par - wine, when the ~~debility~~ minus excite-
-ment is created in the blood vessels, and exercise,
when it is seated in the muscles.
Opium is most proper when all three
of them require an elevating stimulus.
2 In order that sleep may be induced by
its remote causes, it is necessary that
they should act equably upon each of
the great surfaces of impressions that
has been mentioned. Thus we shall
in vain attempt to sleep if heat be applied
to every part of the body except the feet, or
if the brain be exercised upon one
subject, or if the muscles of the limbs be
exercised, while those of the trunk have

F. 3

remained at rest, or if the blood vessels
of the Lungs have been unusually agi-
-tated by speaking, or coughing, while
other parts of the Sanguiferous System
have been performing their ordinary
actions. In all these cases the remedy
~~is to diminish~~ should consist in the
application or reduce of such Stimulus as will
elevate the Deficient part of the above
Surfaces of impression to the sleeping point.
when it is seated in the ~~muscles or blood~~ brain, subjects of
~~to~~ Conversation, or business different
from those which have employed the
mind during the day will induce sleep,
~~or~~ the same effect will be induced by
~~jumping~~ rising from bed and walking
across a bed room, if the whole muscular

system has not been exercised on the previous day. This was Dr Franklin's remedy when he was unable to sleep from the want of ~~muscular~~ general exercise. — I beg your attention to these facts. They are of extensive application in the practice of physic, and a knowledge of them ~~with~~ is indispensably necessary to a physician.

3 The Operation of all the remote causes of sleep is much aided by a recumbent posture of the body. It favours the accumulation of blood in the Venous Sinuses, and Spinal marrow upon which I said the proximate cause of sleep depended.

16

In order that all the three classes of
ordinary sleeps it is necessary that they
should act equably upon the system.
Thus we shall in vain attempt to sleep
if heat has been applied to any part
of our bodies except our feet, or if the
labors or exercises of the day have not
called into action the muscles of the
those which move the limbs as well the
body. ~~V~~ the trunk of the

~~I now the history of~~ In

I have thus delivered the history of
the remote causes which induce natural, or
ordinary sleep. From the manner in
which they operate it will be easy to
explain the cause of that kind of
sleep which is of a preternaturally morbid nature,
and which is induced by an excess

or in the sudden application
in the force of those causes which
induce natural sleep, as also by contr=
=ions, or a compression of the brain.
Opium, Tobacco, wine & ardent spirits, & aliment
when taken in large quantities suddenly
induce an accumulation of blood in the
Venous sinuses and in the Spinal Mar=
=row, and thus bring on a preternaturally
The phlogisticated air or Azote that is
sleep in this way. Crawford discovered
that animals which sleep during the winter
are made to do so, not by the sedative action
of the Cold, but the emperic Properties of their
own breath, for he found by dragging one
of them out of his winter retreat, that it
constantly revived when exposed to the
Air even though it was below the freezing

point. The sleepiness which is often
indeed in crowded Apsemblies is in part
the effect of respired Air or what is called
Azote acting by its stimulus upon the
brain. A higher Degree of this stimulus
induces a Sleep so profound as to terminate
in death. The ~~fixed Air~~ Air emitted by
burning Charcoal produces ~~death~~ Sleep &
death only by its excessive stimulus. The
Sleep in all these Cases is preternaturally
excess only, for the causes which induce
it are exactly the same with those attend-
ing on Natural Sleep. — It differs from
Natural Sleep further in not being accom-
=panied with an expenditure of the excita-
=bility of the System. The excitability is

only ~~suppose~~ suffocated in those cases with
the sudden ~~suppose~~ reduction of the ex=
=citement - hence we find when the
sleep goes off which is thus forced, it
leaves the system in a highly excitable
State, and disposed to take on morbid
action from the slightest visitants. It
is - by forcing sleep in this manner
by means of Opium, that mischief is so
often done by that noble remedy. This
is never the case when it is given pa=
=dually, or in such doses as to expend the excitability of
the System before the brain is reduced [or
elevated] to the sleeping point. Take notice
here that Opium and other Narcotics dipisate
the excitability from the Animal ~~function~~,

only, and not from the natural & vital functions.

III. Let us next attend to the phaenomena and State of the System during Sleep.

It generally comes on with a prick=ing Uneasiness in the eyelids - a difficulty in keeping them Open - weakness, and pain in the limbs. This pain is so acute in Children as sometimes to make them cry. It is the effect of disease or of a morbid excitement invited by pre=vious debility in the muscles of their lower extremities. The intellects next be=come dull, - the head totters, - then the trunk, - and last of all the whole body falls into a horizontal position. There

appears to be a certain Order in which the Senses retire, or Close themselves against external impresions. The eyes first fall a sleep, - then taste - then smell - then hearing, and last of all the Sense of touch. That the Sense of touch repose last, ~~is sleep~~ I infer from our changing our positions in bed after we fall asleep. Indeed this Sense seldom repose itself Completly; & hence we lift up the bed Cloathes when we are cold, - drive flies from our faces, take Holds of a Chamber pot, and make water in it, and perform several Other actions from impresions upon

the Sense of touch ~~with to be man.~~
~~tion of passenthy with~~ without being Conscious
of any of them. There is a Considerable
Variety from idiosyncracy in the order in
which the Senses retire to rest in Different
people. ~~Some~~ idiosyncracys There are
some people in whom the ears appear
never to be closed by Sleep. These people
are awakned by the lightest Noises. Some
Again, we see Others ~~who~~ in whom
the Sense of Smelling and taste appear
never to repose in Sleep. Hence they awake
from the ~~feeblest~~ impressions of the weakest
Odor, and from a bitter or Nauseous
Sensation upon the tongue.

The muscles like the Sensitive

in a regular order when they relax in sleep. The muscles which belong to the arms and legs fall a sleep first, - then those which support the head, and last of all, those which support the back. But there is in some people an inversion of this order from idiosyncracy. There are instances likewise in which a part of the muscles only are relaxed, and others, in which they all retain their natural tone. Thus we see some persons sleep in a sitting posture, - here the muscles of the back are in action, - again we see others sleep in a standing posture as slaves when waiting upon table, and lastly we see some persons ride &

walk while they sleep, particularly
Soldiers who have long been deprived of
their Sleep, also those persons who walk
in their Sleep from the disease called Som-
=nambulism. ~~It is remarkable that~~
and blood vessels
Nerves and Muscles are sometimes at
Variance upon the Subject of Sleep. Thus
and arterial
while muscular debility at 20° invites
to it, nervous debility ~~invites~~ below
20° prevents it. The reverse of this remark
is usually true. They are to be brought
to bear by Medicine and exercise.
Sleep is never perfect, until there is
a perfect harmony in the State of Debility
and excitability between those three
great and extensive Surfaces of impression.

Having described the gradual manner in which it remains that sleep usually comes on, it some-
take notice that
-times comes on suddenly. In this
case we generally start in our sleep,
from the too sudden abstraction of
stimulus, particularly the stimulus of
thought. It is most apt to occur when
the System is worn down to the verge
of the sleeping point by great fatigue.
It shows how much the body
is related to many other kinds of matter
in its constant tendency to an equilibri-
-um. —

The usual phenomena which attend
sleep are
1 the loss of motion in all the muscles

which are under the influence of the Will.

2 The suspension of Sensation. We are unable to see hear, smell taste & feel in profound Sleep while the System is exposed to ~~under~~ the ordinary impressions of the Waking State.

3 The Diminution of irritability in certain parts of the body — hence the Causes which excite Cough and Asthma, & hence when a Stone in the bladder, cease to act with their usual effect upon the System. Hunger is sometimes suspended, & thirst completely chased away by it.

4 The involuntary motions are slower in the Sleeping, than in the Waking State. This is perceptible in Respiration, and in the strokes of the pulse, and arises from the

Abstraction of the stimulus of muscular
action, and the influence of the mind upon
the body. The pulse becomes not only slower,
but fuller in sleep. It would seem as if
the Arteries borrowed ~~about~~ a portion of the
~~expended~~ excitability from the nerves,
and muscles and the other systems of the
body, and employed it in watching over
them During their repose in Sleep. Perhaps
the additional fulness and strength of the
Arteries manifested in the pulse, may
be derived from the stimulus of the blood
accumulated in the venous sinuses, &
Spinal marrow, and from the relaxation
of the Skin which takes place in the
Sleeping state. But further, the peristaltic

motion of the bowels is lessened during
sleep. This is obvious from the suspension
of a diarrhoea, and of an inclination to
stool which we so often observe to take
place in the night. Perhaps the diminu-
-tion of the sensibility & irritability of
the Spinales Arii may be another cause
of the suspension of the inclination to
stool during the continuance of sleep.
5. all the secretions are increased during
sleep. This is ~~of~~ most obvious in the
~~Quantity~~ greater ~~secretion of~~ Urine and bile. It is from
the increased secretion of bile during the
night that a feeling of it takes place
so frequently in the morning, & at no
other time. A french writer Mr Fabre
has very happily said there are two

powers analogous to those which govern the planetary system always at work in the human body. These he has called the centrifugal & centripetal ~~& centrifugal~~ powers. The former is most active in the waking, - the latter in the sleeping State. It is from the ~~excess~~ greater activity of the centripetal power that the Secretions ~~are~~ which are carried on in the internal parts of the body, are greater in sleep than in the waking state. Birkat has ~~called this~~ ascribed this increase in the activity of the Secretory Organs "Organic life" to Distinguish it from the voluntary muscular actions which he ascribes to what he calls "Animal life."

V ~~And~~ Hence ~~too~~ the reason why we so often wake so soon after we drop asleep with a sense of chilliness and

N ~~&~~ Death is sometimes induced by 12° of Cold when asleep, but the system will bear a much greater degree of Cold ~~to~~ without the extinction of life in the waking state. —

6 The excretions are lessened during Sleep.
This is probably owing to the diminution
of the sensibility and irritability of those
parts of the body in which the ~~secreted~~
excreted matters are contained. The
suspension of the excretions in sleep is
perhaps one reason why great sleepers
become so very fat.

7 There is a diminution of the heat of the
body soon after falling a sleep; hence one
reason why persons who sleep in the open
air are more apt to take cold, than persons
who pass the night awake. V The diminution
of the heat of the body according to Dr
Hunter is 10° of Farenheit. This fact
I know is contradicted by experience.
took sometimes we observe an increase

of heat during sleep. This may arise
from two causes, - its confinement
under the bed clothes, & its reaction upon
the body, or from a slight degree of the
Diseases fever which attends sleep and
fever which not only increases heat
but destroys its equilibrium & throws
a greater quantity of it to those parts
to which the thermometer is applied in
determining this question. This fever
often goes off in the night or in the morning with a gentle perspiration.

8 The system is weaker in sleep, than in
the waking state, - hence fevers, gout, - Epi-
- lepsy and many bilious other diseases often
make their first attack in the
night. It has been found in France that
Soldiers and wise homes that are marched
at night

L.

V ~~and~~ studious men who both feel
sleep
and think, more than labourers
but little
Who have up sensation to recruit,

I wish you to remember this fact,
for I shall avail myself of it in ex-
=plaining the proximate cause of dis-
=ease in our pathology.

9 The duration of life is different in
different ages, - habits and ancestry
Children live more than adults. Ab-
=ortive children more than children
born at the end of nine months. So
people in middle life. live more than persons
in advanced life. and carnivorous
animals more than herbivorous. The
reason is, - the food of the former is
more taken in less time, and is more
nourishing than the food of the latter.
The duration of life is always

too long when it exceeds 8 hours in the four and twenty.
many persons have attained to great
Age and enjoyed good health who have
slept much up. Neal in his history
of the Puritans mentions the name of
a Clergyman who lived to be above
70 years of age who slept but four
hours in the four & twenty. Mr Westley
who lived to be 86 slept but 6 hours.
and Mr Whitfield but 4 in the
same time. The last of those men
it is true died at 52. His sleeps I have
been told, was so profound during those
hours, that it was very difficult to wake
him. Few men who have been much
distinguished in life have been long

sleepers, and for an obvious reason.
They live a 5th or 6th part longer than
other people to perform exploits which
procure them prominence in society.
The times of sleeping & waking are
regulated by habit, or what might
more properly be called aperiodic
motions. From 6 to 7 to seven hours
sleep are enough for any constitution.

Where sleep is perfect ~~and~~ or profound,
there is no consciousness of the lapse of
time. I have read an account of a Mr
Tordy who lived in the reign of Henry
the 8th of England, who slept 44 days and
nights and awoke at the end of them as
if he had slept but a single night.

I have met with several old

old people who have told me they passed
whole Nights without sleeping who not=
=withstanding enjoyed good health. The Seneca says
Emperor Augustus past three years without sleep.
late Bishop of Bangor told his John
Pringle that he had not slept an hour
for ten years. ~~And he Therefore does~~ These persons sincerely
believe what they say; but I am
satisfied they deceive themselves. That
this is the case I am certain, for a
young lady who had often heard her
another complain of passing whole
Nights without closing her eyes, assu=
=formed me that she had once watched
her another during one of those suppo=
=sed sleepless Nights, and that she appea=
=red to sleep as soundly as ever she

V Persons who pass sleepless nights
generally feel torpid or stupid the
next day. This torpor or stupor
or both, are kindly ~~given~~ indued in
order to give time for a new recruit
of excitability for the purposes of
gestation & thought. — V.

go to waste sheet

had seen any body in her life. Dr
Perkins in like manner says that
he has seen them in patients in the
nervous fever who denied afterwards
that they had forgotten themselves. The
thus in all those cases ~~[illegible]~~ goes off
in the same gradual manner in
which it comes on, and hence ~~[illegible]~~
~~[illegible]~~ the time in which
it has taken place is not recollected.

V We awake from sleep more suddenly
= by than we fall asleep. The causes which
-sing rouse us are the stimulus of the
light, and of the Urine ^ which
has accumulated in the bladder during
the night. Habit likewise independently
of these stimuli disposes us to wake

V. From the history of the phenomena of Sleep which has been given, you will perceive that it is a naturally morbid state of System. It is preceded by debility & sometimes by a chilliness - it is attended with that state of the brain which takes place in coma, or a low degree of apoplexy - The excitement of the System is unequally diffused. The pulse becomes preternaturally full & slow, and in some instances the Tongue becomes dry - and furred. This is often perceived in the morning. Sleep has been said to be tendency to death - and for a just reason - the whole body is a diseased state when it takes place. I have called the disease of Sleep morbidly natural. There are several other of the natural or ordinary

functions of the body that are equally morbid
with steps as I shall hereafter. Be not surprized
at these apertions. Look around you, and
see whether similar morbid phaenomena do not
take place in the other parts of the material
World.[2] what are storms by sea & land, but
Diseases in the atmosphere intended to
~~the cure of~~ preserve the purity of the Water
and Air upon which support the millions
of Creatures that inhabit them.[2] and yet
these storms are all as natural. ~~They belong~~
~~to the ordinary Economy of the~~ an atmosphere
uniformly calm, is unnatural. Thus
Result what was said before by, that
~~I shall prove this subject and the more apro-~~
~~priate place hereafter~~, and shall I hope
prove to you that we are kept alive by
our diseases, as certainly (tho' in different degree)
as we are by Air and Aliment. These diseases
are such as are pleasure, & what pain.
They depend on the different
Degrees or forms of the same impressions.

at a certain hour. The mind first emerges from its repose, - the ears are then opened, - ~~the~~ vision is restored, - ~~and lastly~~ we feel our relation to the objects which touch our limbs; - yawn; - sneeze - or cough, and all this in order to diffuse ~~the~~ nutriment and excitability in every part of the body in an equable manner. I confine this account of the manner of our waking ~~to~~ from sleep only when it has taken place in a recumbent posture of the body. We awake more suddenly from a nap upon a chair. The equilibrium of ~~the~~

~~the circulation as well as of~~ excite-
=ment and excitability is thus more
promptly restored. and the blood which
stagnated in a lifs quantity in the Veins
finuses and Spinal Marrow more readily
finds its level in every part of the body.
It is for these reasons that we wake
after Hoping in a Chair without any
sense of Uneasiness, and disposed at once
to study and business. In this way only
the Roman Emperor Augustus refreshed
himself after the toils of the forenoon.
- ~~He~~ In adopting this practice
of Hoops care should be taken to prevent
the inclination of the neck or body,
otherwise the brain will suffer much
more than from Hooping in a recum-
=bent

posture.

The state of the body and mind im-
-mediately after waking deserves our
attention. From the abstraction of stimuli
which impart life and strength to the
body during the night it is much
weaker than during the day, hence
consumptive people cough most in the
morning, and hence the slow and
feeble steps with which labourers advance
to their work soon after they rise
from their beds. Even the face discovers
marks of a relaxation of muscular
tone after sleep, hence middle aged people look older,
and barefaced people look beautiful

V It is from the greater Debility of the body in the morning, that fear is more sensibly felt at that time than at any Other. The Indians are so well acquainted with this fact that they generally attack their enemies at day light. This was the case on the 4th of November 1791 when they defeated Genral St Clair on St Marys river, also on the 6th of Novr 1792 where they attacked major Adair near Fort St Clair, and lately when they attacked Gen Harrison on the 7th of Novr 1811.

early in the morning than they ~~do~~ do
~~at any other time~~ after the stimuli
of the day have acted some hours upon
them. It is remarkable that in that
season in which the debility induced by
sleep is most sensible, that is in the
spring and summer, Heaven kindly
provides the odor of flowers, and the
music of birds to obviate it, and thus
gradually to prepare us in the morning
for the labors and duties of the day. This
history of the state of the body after sleep
should be forgotten by a physician. The
more he forgotten by a physician. The
knowledge of it is of great application
to the practice of physic.

The faculties of the mind are very
different in the morning from what they
are in the subsequent parts of the day.

8 By the occupations of the day they are often jumbled together, so as to act with less regularity and order than they do immediately after a Nights sleep. Each faculty now settles, as if by a kind similar to that which determines the arrangement and order of solid bodies by their Specific gravities. The Understanding and all the rational faculties act now with promptness and order, and hence the preference that is every where given to morning studies, and hence too the universal practice of consulting our pillow in all new & difficult enterprises. It should be our morning pillow only. The moral faculties now occupy the highest and most honourable

station in the mind, while all the passions
are precipitated to the bottom of it. Men
men are less disposed to guard and with-
=draw soon after they awake from sleep
in the morning than they are some
hours after the moral faculties have
kept company with the understanding
and the passions.